

THE CITRON STARS 199

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C. Inspection -
Components and material manufactured to N.C. requirements at
an approved supplier are documented from procurement through
shipping by the supplier. N.C. including certifying inspection
verifying that the materials received are as identified in

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CIL
EMU CRITICAL EVENTS LIST

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NAME	FAILURE	ANALYST:
P/N	MODE &	
QTY	CAUSE	
2/10	1041025:	

REASONABLE FOR ACCEPTANCE

the procurement documents, that no damage has occurred during shipment and that supplier certification have been received which provides traceability information.

the bracket castings are radiographically inspected to detect the presence of flaws prior to machining and magnetic particle inspected after machining. Verification of the presence of "G" bracket keeper screw during assembly torque operations and during application of epoxy adhesive on screw threads.

During PMA:

The following inspection points are performed at the LTA assembly level in accordance with ILC Document D111-F002M4:
Visual inspection for material degradation.
Visual inspection for structural damage following proof pressure test.

D. Failure history -

EMU-104-1029 (7/20/00). All twelve E-brackets in the LTA were corroded at the axial restraint webbing interface due to lack of passivation during manufacturing and storage in a plastic bag without thorough drying. ILC personnel will re-instruct ILC personnel to follow proper procedures to prevent acceptance of parts without passivation and packaging with residual moisture present.

E. Ground Turnaround -

During ground turnaround in accordance with TEMU-R-003, the LTA is visually inspected (with IMAs removed) for material damage. Additionally, E-bracket screw torque is verified upon completion of first string. Structural and leakages are also performed at LTA and EMU level.

F. Operational use -

Crew Response -

Pre-Flight EMU : If not detected, no response. If detected audibly or tactily, troubleshoot problem. If no success, use spare LTA if available or terminate EMU prep.

EMU : Single failure not detectable, no response.

Special Training -

No training specifically covers this failure mode.

CIL
CMI CRITICAL ITEM LIST

08/31/90 SUPERSEDES 01/02/90

ANALYSIS:

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NAME	FAILURE	CAUSE(S)	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
2710	SDAPW51			Operational Considerations - Not applicable.